

2012 Green Governments Awards

Award Category	Construction and Renovation
Agency	Capital Development Board (CDB)
Receiving	Director Jim Underwood
Acknowledge	<p style="text-align: center;">CDB Executive Director, Jim Underwood CDB Project Manager, Kirk Fernandes University of Illinois Project Manager, Mike Wise Cannon Design Group, Ron Harrison Williams Brothers Construction, Inc., Steven Scott</p>
Summary	<p>In the renovation of Lincoln Hall, the following key architectural features were retained or restored, including: Lincoln Hall Theater, East (Quad-side) marble foyer, Quotes, medallion portraits, and scenes from the life of Lincoln on the exterior walls, and Lincoln Hall Theater was restored to its original colors and received a new stage curtain. The seating was made ADA accessible.</p> <p>The rest of the interior space was largely gutted and reorganized. The renovation provided new wiring and equipment for “smart” technology in classrooms, and mechanical and electrical upgrades, including air conditioning, new plumbing, and life safety upgrades. An informal gathering place for students and staff is a new feature created out of a unique area under Lincoln Hall Theater that was once a smoking lounge.</p> <p>All classrooms were relocated to the first floor instead of being spread out over three floors, as they were. In doing so, the campus gained classroom square footage even as the actual number of classrooms decreases from 21 to 18, eliminating undersized classrooms. All new classrooms accommodate a minimum of 32 students and are large enough to allow for flexible seating and teaching styles. The largest classrooms, excluding Lincoln Hall Theater, accommodate 101 students.</p> <p>The project began at the end of March in 2010 and was completed in time for the start of classes in fall of 2012. The building was LEED certified. Nearly 90% of construction waste was reused or salvaged, and new materials incorporate rapidly renewable, regionally produced, recycled, and low-VOC content. Corridors, mechanical rooms, toilet rooms, and stair enclosures are configured with durable plaster-on-concrete-block wall construction for durability, while offices are constructed with metal studs and drywall to</p>

	<p>facilitate future reconfiguration. Improved insulation, automatic occupancy-based adjustment of lighting and temperature, energy-efficient light fixtures, and air handlers with heat-recovery wheels and variable-speed drives reduce the building's energy consumption by 35%. Low-flow plumbing fixtures reduce water use by 40%. Courtyard additions are topped by vegetated roofs.</p>
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Award Category	Office Practices, Green Information Technology, and Facility Operations Management
Agency	Central Management Services Bureau of Communications and Computer Sciences (CMS – BCCS)
Receiving	Don Warren and Steve Nation
Acknowledge	Valerie Bolinger, Kelly Spence, and Dixie Sloman for E-Time Rick Tate for the Data Lighting Center.
Summary	<p>E- Time</p> <p>In another effort to reduce paper consumption and the time and other costs required to process weekly time and leave requests within CMS, BCCS designed and developed an Electronic Timekeeping application (e Time). eTime is a web-based front end to the Centralized Time and Attendance System (CTAS), the CMS statewide timekeeping application. eTime eliminates the need for paper timesheets, leave requests and overtime requests. As of December, 2012, eTime has been deployed to 2529 employees of three agencies, for an estimated savings of approximately \$3.6 million annually.</p> <p>Data Center Lighting</p> <p>The Department of Central Management Services (CMS), working through the Illinois Capital Development Board (CDB), completed an extensive project to renovate challenging elements of the lighting fixture and control networks within the James R. Thompson Center. This project, which was originated to request the retrofit of fixtures which could not be improved through the in-house work CMS had undertaken beginning in 2008 (which was recognized last year), was expanded in 2011 to include additional fixture upgrades and restoration of the automated control system to its original capabilities when CDB recognized the availability of American Reinvestment and Recovery Act funding which had originally been targeted for projects which could not go forward.</p>

Included in this project were such items as LED emergency exit signs, high-efficiency lighting upgrades in selected areas of the building, as well as the rehabilitation of the lighting system's automated controller. The project implementation team estimates that once the final punch-list items are completed and the control system is fully operational as intended, the project will generate annual savings of approximately \$215,000.

PC Power Management

The Bureau of Communication and Computer Services (BCCS) has purchased software which provides active pc power management and pc "wake-up and shut-down" capabilities that allow for the power management and shut-down of desktop computers when not in use. Monitors also "time-out" when not in use for a pre-set period of time. This feature has been implemented on close to 100% of all CMS desktops and on about 12% of all enterprise devices as of September 1, 2012. We anticipate that it will take 1 -2 years to finish the enterprise-wide implementation. Once fully implemented, this feature should save over \$1.4 million annually across our pc install base.

Server Virtualization

In an effort to reduce power consumption and costs, the Bureau of Communication and Computer Services (BCCS) uses VMWare - server virtualization technology. Since January 2008, BCCS has virtualized more than 1500 servers. The virtualized environment is a combination of Windows, Netware, and Linux operating systems. The virtualization project has resulted in more efficient operations at a reduced cost. Server uptime has increased and server/storage provisioning times have decreased. Virtualization technology has enabled us to reduce our overall server power consumption by 77%.

In addition, in FY 2012 CMS greatly reduced the space we use in the Harris Data Center. CMS moved the mainframe, storage, tape libraries, and midrange equipment to our Central Computing Facility (CCF) which is already equipped with the electrical and cooling capability needed. Overall, we are now using less cooling and electrical at that location due to the data center consolidation and virtualization of servers.

Award Category	Energy Efficiency and Transportation
Agency	Department of Commerce and Economic Opportunity (DCEO)
Receiving	Acting Deputy Director Agnes Mrozowski
Acknowledge	Andrew Moyer
Summary	<p>The Illinois Department of Commerce and Economic Opportunity (DCEO) worked with the Illinois Department of Central Management Services (CMS) to increase the energy efficiency of the state's fleet vehicles and to advance the infrastructure for charging electric vehicles in Illinois. These effort provided CMS with a total of \$776,692.00.</p> <p>First, DCEO provided CMS with rebates to help offset the cost of purchasing fleet vehicles with greater fuel efficiency. CMS used these funds to help pay for 10 flex fuel vehicles, 15 Hybrid Ford Fusions, and 10 Hybrid Ford Escapes. In addition, DCEO provided full funding for the purchase of 15 Mitsubishi plug in electric vehicles.</p> <p>The second component of this initiative provided support to develop additional electric vehicle charging stations in Illinois. The specific focus was connecting the City of Chicago and the City of Springfield and was referred to as the Interstate-55 corridor network project. Funding helped the State strategically place 33 level II chargers throughout Illinois. The chargers were not only located to support the state's EV fleet, but to also provide public charging stations at State facilities. It is anticipated that these 33 charges will be incorporated into a larger, future level III interstate corridor project that will further the practicality of electric vehicle usage.</p>

Award Category	Energy Efficiency and Conservation and Education and Outreach
Agency	Department of Corrections
Receiving	Roland Miles and Kevin Gilson for the Garden Projects; Jon Lucshinger for the Dwight CC SteamTraps
Acknowledge	
Summary	<p>Gardens</p> <p>Since January, the Department of Corrections gardens have produced 205,535 pounds of fresh, organic, and locally grown foods. These foods are grown and harvested entirely on correctional center grounds by employees and inmates. In accordance with the recently</p>

	<p>signed Food Farms and Jobs Act, these gardens provide a variety of locally grown food to both DOC staff members and inmates. In addition to providing a sustainable food source, these gardens provide on the job training for inmate workers, many of whom enter with little to no work experience and leave as viable candidates for employment. Of DOC's many gardens, Vandalia's has proven to be a standout thanks to the effort of Dietary Manager Dan Hobart. Since January, Vandalia CC has harvested 55,196 pounds of food including cabbage, tomatoes, radishes, squash, onions, and a variety of other foods. Of the total harvest, 10,000 pounds were donated to a variety of food banks, allowing DOC to share the benefits of locally grown organic foods with those less fortunate including the elderly, impoverished, and individuals with learning disorders.</p> <p style="text-align: center;">Steamtraps</p> <p>Since the creation of its sustainability committee in December of 2011, Dwight CC has completed a variety of projects in the name of sustainability. Perhaps the most successful was the repairing of steam traps within the facility. Prior to this, steam was being created as a byproduct of various machinery, only to be lost. However, thanks to the now functional steam traps, Dwight was able to cut its natural gas use in half, saving the facility and the state \$55,000 per year. This model of energy efficiency shows that what matters is not necessarily the biggest, newest, and most expensive system, but the recognition of unused energy and willingness to act. Jerry Daly is primarily responsible for the steam trap action.</p>
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Award Category	Water Quality and Conservation
Agency	Stateville Correctional Center
Receiving	James Louch
Acknowledge	Bill Wielding
Summary	<p>Stateville Correctional Center was recently able to cut 97.5 tons of salt from its steam power plant, where all of the soft water for state institutions is produced. Traditionally, the process required a brine solution to be injected into the water, then a "slow" 20 minute rinse cycle, followed by a "fast" rinse cycle. To make the production more efficient, Stateville workers reused the water by pumping the slow rinse water back into the brine tanks to be reused. This slow rinse waters contains about 40% of the necessary salt, allowing the institution to cut its salt purchasing by about \$14,000 per year. Reusing the slow rinse water also keeps excess salt out of Illinois'</p>

	waterways, preventing contamination in local ecosystems. The new practice also allows the facility to use considerably less water on a yearly basis, placing less strain on aquifers and other sources of water. Bill Weidling was the primary person responsible for the improvements.
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Award Category	Waste Reduction and Recycling
Agency	Illinois Correctional Industry
Receiving	Bill Gross, Jeff Dennison, and Jen Aholt
Acknowledge	Centralia, Shawnee, Menard, and Vandalia Correctional Centers
Summary	<p>Recycling</p> <p>Within the last 18 months, three correctional centers have adopted recycling programs, with mentoring help from Menard CC. The long standing and widely successful Menard recycling program, created by Bill Gross, has been a source of inspiration to Centralia CC, Shawnee CC, and Vandalia CC. Each facility has recently begun their own recycling programs in an effort to cut waste hauling costs and reduce the amount of waste entering landfills. This recycling effort will go a long way in reducing the facilities carbon footprints, as methane (released via decomposing materials in landfills) are 20 times as harmful to the atmosphere as CO2. Thanks to a donated Baler from Menard, Centralia is now able to recycle cardboard, plastic, newspapers, magazines, tin, and bottle caps, which is expected to see a savings of over \$100,000 in the first year of operation alone. Much of the credit for Centralia's success goes to Mark Beckman, who has shown strong enthusiasm and leadership with the project. Shawnee and Vandalia have also begun recycling programs with the aid and mentorship of Bill Gross, taking cardboard, plastic, paper, computer equipment, and discarded ink cartridges. At Shawnee, Major Jeffrey Dennison has led the recycling push, while at Vandalia, Dan Hobart stepped out of his normal role as a dietary manager to make the principal push behind their recycling program.</p>

Award Category	Waste Reduction and Recycling
Agency	Department of Revenue (IDOR)

Receiving	Jay Neposchlan
Acknowledge	Jay Neposchlan and Joe Romang
Summary	<p>The DOR set up a program (now referred to as R-365) to establish a permanent (365/days per year) location for employees to recycle their personal home electronics-both large and small and corrugated cardboard, in order to expand our outreach efforts to encourage the recycling mentality and participation in our employees.</p> <p>The program has been a great success. In the 8 months of FY-12 (November-June), since the program started, the IDOR facilitated the recycling of over 8,500 pounds of electronics and over 1,000 pounds of cardboard. In the future the IDOR would like to expand the program to include plastics and Styrofoam once a vendor is found.</p>

Award Category	Education and Outreach, Transportation, and Efficiency and Conservation
Agency	Department of Transportation
Receiving	Steve Massey and IDOT Deputy Secretary, Andre Ashmore
Acknowledge	<p>Deputy Secretary, Andre Ashmore, John Bartman, Don Kupferschmid, Steve Massey for Energy Crop Production.</p> <p>Steve Massey – Rain Barrels to Schools Design Contest</p> <p>David Lippert and Abdul Dahhan for Total Recycled Asphalt</p>
Summary	<p>Energy Crop Production</p> <p>The goal of this study is to investigate the use of Illinois highway right-of-ways for energy crop production to generate additional revenue to defray the cost of road maintenance and improve the environment. The cellulosic grasses can be used to produce ethanol for E85 and pelletized to be used as fuel for heat or electricity to reduce dependency on foreign oil and reduce pollution.</p> <p>Rain Barrel Competition</p> <p>The Illinois Department of Transportation in partnership with Illinois Correctional Industries held its third consecutive statewide Rain Barrel Design Competition during the fall of 2012. 50 artistic designs were chosen from participating Illinois schools in an effort to educate students in effective storm water management practices. All Illinois schools—grades three through twelve—were eligible to participate. Winning schools receive a rain barrel for the students to paint their winning entry onto the barrel and use at their respective school.</p>

	<p style="text-align: center;">Total Recycled Asphalt</p> <p>The nominated agency, through the efforts of Mr. Abdul Z Dahhan P.E. and David L. Lippert P.E., and with the support of the District 1 Materials Lab, Mixture Control Unit, and Bureau of Materials and Physical Research in Springfield, have worked to research and develop “Total Recycle Asphalt” Hot Mix Asphalt surface material. This Hot Mix Asphalt is comprised of over 97 percent commonly available reclaimed and recycled materials including Reclaimed Asphalt Pavement (RAP) from pavement millings, Crushed Concrete salvaged from public works projects, a Steel Slag aggregate by-product from production of steel and Reclaimed Asphalt Shingles (RAS) from re-roofing of houses.</p> <p>A demonstration project has been recently performed, in cooperation with a company in the private sector, Reliable Asphalt L.L.C., to produce and evaluate the mix under large volume production situations. Furthermore, this demonstration project has assured us that standard production plants are capable of producing this mix without modifications. Laboratory prepared mixes do not always translate well to full scale plant production. Reliable Asphalt's willingness to produce the mix for improvements at their facility allowed IDOT to experiment and evaluate the mix prior to adoption into a project. After evaluating the concept and implementing a specification the department plans to use this mix on several projects during the 2013 construction season. Initial testing has shown that it is possible to produce a material with physical properties equal to that of the conventional material that is currently in use.</p> <p>The benefits that are expected from developing this concept further are material cost reductions on the order of 20 percent less than traditional methods and re-use of materials that might be otherwise land filled.</p>
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Award Category	Transportation and Energy Efficiency
Agency	Illinois State Police
Receiving	Lieutenant Colonel Weitzel
Acknowledge	
Summary	CMS and ISP worked jointly to identify and convert 25 ISP Ford Crown Victoria's to run on E-85 fuel. The conversion allowed 25

	vehicles in the ISP fleet to run on cleaner burning E-85 fuel.
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Award Category	Facility Operations and Management
Agency	Prisoner Review Board
Receiving	Nichole Damhoff, Tracey Buckley,
Acknowledge	Director Adam Monreal
Summary	<p>PRB began removing discharged files out in April 2012 and to date, the IDOC have shipped out over 69,500 discharged files from the central filing system to be microfilmed. The central filing system had approximately 300,000 files (active and discharged).</p> <p>The agency revised retention schedule to include digital format and will be able to forward electronic files to SOS to be filmed through an Auto Archive Writer at a faster rate, more efficiently. A regular role of film handle about 3,000 images, a digital format can handle between 11,000 to 14,000 images on a role, which allows the agency to put more documents on a role which allows a cost savings on film and manpower.</p> <p>PRB secured a Docuware program and imaging software and began scanning in new inmate files and old active inmate files at the same time. To date, our agency has deposited over 1300 active inmate files into the virtual file cabinet.</p> <p>They created electronic forms for PRB and IDOC to utilize as well as working with IDOC to assist in creating electronic forms that IDOC uses with PRB. With this creation, it will allow the agencies to further utilize electronic files and forward documents via email rather than fax or mail. Also, with the utilization of electronic forms it allows the agency to absorb the document quicker into the system, saving on manpower and resources.</p> <p>Agency has purchased I pads to be able to be more portable, efficient and to utilize a sharepoint site/web version of Docuware at state facilities. This will allow Board Members to be able to conduct a hearing with no paper, electronically sign and return the document into the virtual file cabinet in real time. This will allow the facilities to gain access to the documents immediately located anywhere throughout the state along with the office staff that are located in</p>

	Springfield. The Board Members will no longer have to carry large heavy files when traveling to the state facilities
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Award Category	Waste Reduction and Recycling
Agency	University of Illinois at Chicago
Receiving	Angel Diaz
Acknowledge	Cynthia Klein-Banai, Associate Chancellor for Sustainability
Summary	<p>UIC collects data on many of its waste streams—paper, bottles, cans, cardboard electronic waste, and waste that goes to landfill. The campus recycling rate, currently 45%, is the amount of recycled materials collected divided by the total amount of waste collected.</p> <p>UIC recently completed the expansion of the recycling program. All campus buildings are now included in the collection process. The last three phases of program expansions were supported by grants from Illinois DCEO.</p> <p>UIC collects plastic bottles and cans, however by weight these materials comprise less than one percent of the recycled material collected.</p> <p>The Great Stuff Exchange is a semi-annual free-cycling event that brings unwanted office supplies and small office items together with campus community “shoppers”, who are invited to take any items for free. This program has grown in popularity in just the last year- from 50 boxes in Fall, 2011 to 95 boxes in Fall, 2012.</p>